AMENDMENTS TO THE CLAIMS

This listing replaces all prior versions and listings of claims in the application.

Listing of Claims

1-90. (Cancelled)

- 91. (New) A method of treating urinary incontinence comprising increasing resistance of passage of urine through a urethra comprising administering a prosthetic device into the urethra, said prosthetic device comprising a hydrogel comprising about 0.5% to 25% by weight of a polymer, based on the total weight of the hydrogel, said polymer prepared by a method comprising combining acrylamide and methylene bis-acrylamide; wherein said hydrogel includes less than 50 ppm monomeric units, has a complex viscosity of about 2 to 50 Pas and has an elasticity modulus of about 1 to 200 Pa.
- 92. (New) The method according to claim 91, 111, 115, 116 or 117, wherein the polymer is prepared by combining acrylamide and methylene bis-acrylamide in a molar ratio of 150:1 to 1000:1.
- 93. (New) The method according to claim 91, 111, 115, 116 or 117, wherein the hydrogel comprises less than 15% by weight of the polymer, based on the total weight of the hydrogel.
- 94. (New) The method according to claim 91, 111, 115, 116 or 117, wherein the hydrogel comprises at least 1% by weight of the polymer, based on the total weight of the hydrogel.
- 95. (New) The method according to claim 91, 111, 115, 116 or 117, wherein the hydrogel has a complex viscosity of about 2 to 40 Pas.
- 96. (New) The method according to claim 91, 111, 115, 116 or 117, wherein the hydrogel comprises at least 75% by weight pyrogen-free water or saline solution.
- 97. (New) The method according to claim 91, 111, 115, 116 or 117, wherein the administering comprises injecting the hydrogel.

- 98. (New) The method according to claim 97, wherein the injecting of the hydrogel comprises injections which include injections at positions 10, 2, and 6 o'clock of the cross-sectional axis of the urethra.
- 99. (New) The method according to claim 91, 111, 115, 116 or 117, further comprising the inclusion of cells.
- 100. (New) The method according to claim 91, 111, 115, 116 or 117, wherein the hydrogel comprises less than 10% by weight of the polymer, based on the total weight of the hydrogel.
- 101. (New) The method according to claim 100, wherein the hydrogel comprises less than 7.5% by weight of the polymer, based on the total weight of the hydrogel.
- 102. (New) The method according to claim 101, wherein the hydrogel comprises less than 5% by weight of the polymer, based on the total weight of the hydrogel.
- 103. (New) The method according to claim 102 wherein the hydrogel comprises less than 3.5% by weight of the polymer, based on the total weight of the hydrogel.
- 104. (New) The method according to claim 91, 111, 115, 116 or 117, wherein the hydrogel comprises at least 1.6% by weight of the polymer, based on the total weight of the hydrogel.
- 105. (New) The method according to claim 95, wherein the hydrogel has a complex viscosity of about 2 to 30 Pas.
- 106. (New) The method according to claim 105, wherein the hydrogel has a complex viscosity of about 2 to 20 Pas.
- 107. (New) The method according to claim 99, wherein the cells comprise stem cells.
- 108. (New) The method according to claim 99, wherein the cells allow for cellular engraftment to the surrounding tissue in the urethra.
- 109. (New) The method according to claim 91, 111, 115, 116 or 117, wherein the polymer is substantially comprised of cross-linked polyacrylamide.

- 110. (New) The method according to claim 91, 111, 115, 116 or 117, wherein the polymer consists essentially of a polyacrylamide crosslinked with the cross-linking agent methylene bis-acrylamide.
- 111. (New) A method of treating urinary incontinence comprising providing adequate resistance in a urethra by bulking the urethra comprising administering a prosthetic device into the urethra, said prosthetic device comprising a hydrogel comprising about 0.5% to 25% by weight of a polymer, based on the total weight of the hydrogel, said polymer prepared by a method comprising combining acrylamide and methylene bis-acrylamide; wherein said hydrogel includes less than 50 ppm monomeric units, has a complex viscosity of about 2 to 50 Pas and has an elasticity modulus of about 1 to 200 Pa.
- 112. (New) The method according to claim 91, 111, 115, 116 or 117, wherein the hydrogel has an elasticity modulus of about 5 to 150 Pa.
- 113. (New) The method according to claim 91, 111, 115, 116 or 117, wherein the hydrogel has an elasticity modulus of about 10 to 100 Pa.
- 114. (New) The method according to claim 91, 111, 115, 116 or 117, wherein the elasticity modulus and the complex viscosity are related by a factor of 5.8 to 6.4.
- 115. (New) A method of treating urinary incontinence comprising injecting a urethral bulking agent into the urethra wherein said bulking agent comprises a hydrogel comprising i) pyrogen-free water or saline solution and ii) about 0.5% to 25% by weight of a polymer, based on the total weight of the hydrogel, said polymer prepared by a method comprising combining acrylamide and methylene bis-acrylamide; wherein said hydrogel includes less than 50 ppm monomeric units, has a complex viscosity of about 2 to 50 Pas and has an elasticity modulus of about 1 to 200 Pa.
- 116. (New) A method of treating urinary incontinence comprising injecting a hydrogel into a urethra, said hydrogel comprising about 0.5% to 25% by weight of a polymer, based on the total weight of the hydrogel, said polymer prepared by a method comprising combining acrylamide and methylene bis-acrylamide; wherein said hydrogel includes less than 50 ppm

monomeric units, has a complex viscosity of about 2 to 50 Pas and has an elasticity modulus of about 1 to 200 Pa.

- 117. (New) A method of treating urinary incontinence by bulking a urethra comprising administering a prosthetic device into the urethra, said prosthetic device comprising a hydrogel comprising about 0.5% to 25% by weight of a polymer, based on the total weight of the hydrogel, said polymer prepared by a method comprising combining acrylamide and methylene bis-acrylamide; wherein said hydrogel includes less than 50 ppm monomeric units, has a complex viscosity of about 2 to 50 Pas and has an elasticity modulus of about 1 to 200 Pa.
- 118. (New) The method according to claim 91, 111, 115, 116 or 117, wherein the hydrogel comprises at least 85% by weight pyrogen-free water or saline solution.
- 119. (New) The method according to claim 118, wherein the hydrogel comprises at least 90% by weight pyrogen-free water or saline solution.
- 120. (New) The method according to claim 119, wherein the hydrogel comprises at least 95% by weight pyrogen-free water or saline solution.
- 121. (New) The method according to claim 115, wherein said bulking agent comprises a hydrogel comprising i) at least 75% pyrogen-free water or saline solution and ii) about 0.5% to 25% by weight of polyacrylamide, based on the total weight of the hydrogel, said polyacrylamide prepared by combining acrylamide and methylene bis-acrylamide; wherein said hydrogel includes less than 50 ppm monomeric units, has a complex viscosity of about 2 to 50 Pas and has an elasticity modulus of about 1 to 200 Pa.
- 122. (New) The method according to claim 91, 111, 115, 116, 117, or 121, wherein the hydrogel is homogenized.
- 123. (New) The method according to claim 109, wherein said polymer is cross-linked polyacrylamide.

- 124. (New) The method according to claim 91, 111, 115, 116 or 117, wherein the hydrogel has a complex viscosity of about 3 to 15 Pas and wherein the elasticity modulus and the complex viscosity are related by a factor of 5.8 to 6.4.
- 125. (New) The method according to claim 91, 111, 115, 116 or 117, wherein the hydrogel includes less than 10 ppm monomeric units.
- 126. (New) The method according to claim 91, 111, 115, 116, 117 or 121, wherein the hydrogel comprises at least 1.5% by weight polyacrylamide and less than 10% by weight polyacrylamide, and at least 90% by weight pyrogen-free water or saline solution, based on the total weight of the hydrogel, said polyacrylamide prepared by combining acrylamide and methylene bis-acrylamide; wherein said hydrogel includes less than 10 ppm monomeric units, has a complex viscosity of about 2 to 20 Pas and has an elasticity modulus of about 1 to 100 Pa.
- 127. (New) The method according to claim 91, 111, 115, 116, 117 or 121, wherein the incontinence is chosen from stress, reflex and urge incontinence.
- 128. (New) The method according to claim 91, 111, or 117, wherein the prosthetic device is administered into the submucosa of the urethra.